**Module Structure of Bachelor of Computer Science Hons. Network Technology and Cyber Security**

|  |  |  |  |
| --- | --- | --- | --- |
| **SEMESTER I** | | | |
| **SN** | **Course Code** | **Course Title** | **Credits** |
| 1 | CSC-101 | Introduction to IT | 6 |
| 2 | CSC-102 | Programming Fundamental using C | 6 |
| 3 | CSC-103 | Data Communication & Networking | 6 |
| 4 | MTH-151 | Computational Mathematics I | 6 |
| 5 | ENG-175 | Communication English | 6 |
|  |  | Total | 30 |
| **SEMESTER II** | | | |
| **SN** | **Course Code** | **Course Title** | **Credits** |
| 1 | MTH-152 | Computational Mathematics II | 6 |
| 2 | ENG-176 | Technical & Professional Communication | 6 |
| 3 | CSC-104 | Object Oriented Programming (C++ / Java) | 6 |
| 4 | CSC-105 | Database Management System | 6 |
| 5 | CSC-106 | Digital Electronics & Logic Design | 6 |
|  |  | Total | 30 |

|  |  |  |  |
| --- | --- | --- | --- |
| **SEMESTER III** | | | |
| **SN** | **Course Code** | **Course Title** | **Credits** |
| 1 | MTH-253 | Numerical Method | 6 |
| 2 | CSC-201 | Data structure Algorithm | 6 |
| 3 | CSC-202 | Organization and Management | 6 |
| 4 | CSC-203 | Network Analysis & Design | 6 |
| 5 | CSC-204 | Routing and Switching Essentials | 6 |
|  |  | Total | 30 |
| **SEMESTER IV** | | | |
| **SN** | **Course Code** | **Course Title** | **Credits** |
| 1 | CSC-205 | Probability and Statistics | 6 |
| 2 | CSC-206 | Network Operating System | 6 |
| 3 | CSC-207 | Network and System Administration | 6 |
| 4 | CSC-208 | Client Server Computing | 6 |
| 5 | CSC-209 | Wireless and Mobile Communication | 6 |
|  |  | Total | 30 |
| **SEMESTER V** | | | |
| **SN** | **Course Code** | **Course Title** | **Credits** |
| 1 | CSC-301 | Network Security | 6 |
| 2 | CSC-302 | Network Programming | 6 |
| 3 | CSC-303 | Research Methodology | 6 |
| 4 | CSC-304 | Fundamentals of Project Management | 6 |
| 5 | CSC-305 | Network Management | 6 |
|  |  | Total | 30 |
| **SEMESTER VI** | | | |
| **SN** | **Course Code** | **Course Title** | **Credits** |
| 1 | CSC-306 | Server Administration | 6 |
| 2 | CSC-307 | Broadband Networks | 6 |
| 3 | CSC-308 | Ethical hacking | 6 |
| 4 | CSC-309 | Project Dissertation – I | 6 |
| 5 |  | Elective I | 6 |
|  |  | Total | 30 |
| **SEMESTER VII** | | | |
| **SN** | **Course Code** | **Course Title** | **Credits** |
| 1 | CSC-401 | Cyber Security and IOT | 6 |
| 2 | CSC-402 | Artificial Intelligence | 6 |
| 3 | CSC-403 | IT Acts and Cyber Law | 6 |
| 4 | CSC-404 | Project Dissertation – II | 6 |
| 5 |  | Elective II | 6 |
|  |  | Total | 30 |
| **SEMESTER VIII** | | | |
| **SN** | **Course Code** | **Course Title** | **Credits** |
| 1 | CSC-409 | Organizational Behavior and HRM | 6 |
| 2 | CSC-410 | Industrial Training | 12 |
| 3 |  | Elective III | 6 |
| 4 |  | Elective IV | 6 |
| 5 |  | Total | 30 |
|  |  | Grand Total | 240 |
|  | | | |
|  | | | |
| **LIST OF ELECTIVES** | | | |
| Distributed Networking | | | |
| E-Governance | | | |
| Cryptography | | | |
| E-Commerce | | | |
| Net Centric Design | | | |
| Advance Java Programming | | | |
| Data center Design and Management | | | |
| Information Security | | | |
| Security Audit | | | |
| Advanced Networking with IPv6 | | | |
| Cloud Computing | | | |
| GIS | | | |
| cyber forensic | | | |
| Introduction to Programming with Python | | | |
| Linux for Systems Administrators | | | |
| Criminal Evidence and Procedures | | | |